PROGRESS REPORT 2

AUTOMATIC PHOTOINTERPRETATION FOR LAND USE MANAGEMENT IN MINNESOTA

ERTS
Proposal Number MMC # 257
Principal Investigator Number PR 202

July 31, 1972

Approved by George Swanlund / by RMS
George Swanlund

1. PROGRESS

Aerial Photographic Data

We were informed by the Mission Management Office at Houston that Mission 205 overflew Minnesota between 0900 and 1200 on June 6, and that photographic products should reach us by the end of July. However, no products have arrived as of August 8. All three "mandatory" areas and two of the "desired" areas were covered; the third "desired" area was obscured by clouds. This coverage will suffice for preliminary analysis.

On receipt of the photographs and transparencies we intend to select preliminary test areas in consultation with the State Planning Agency. This will be followed by laboratory analysis to determine spatial frequency content of the selected areas.

Ground Truth and Test Area Delineation

The Minnesota land use computer data bank is addressible by the latitudes and longitudes of township centers. We have a map-graphic printout of the contents of the data bank, which has the forty-acre parcel as the resolution element. This information with knowledge of the format center and yaw will permit us to select data from the computer compatible tapes corresponding to the land use classes visible in the MSS signals. At present we plan to analyze the data as individual elements and with two trial area sizes: forty-acre parcel and section.

Computer Data Products

We received from NDPF the format and content specification for computer compatible tapes and a set of test tapes containing step tablet and dummy annotation data (0.5 inch, seven track, 800 bpi). We are able to accommodate the change from 556 bpi to 800 bpi using our Sigma 5 computer. We have performed a preliminary dump and are writing the symbol conversion program. No difficulties are expected.

2. STANDING ORDER PRODUCTS

The standing order form is unchanged.

3. DATA REQUEST FORM

None submitted during the report period.